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SUBJECT: Inspection Report No. 1 - [REDACTED]

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7. Project Status:

This production effort is split phase. The first phase preproduction study is nearly complete. Results of this study indicate that the sensitivity of the ear canal unit can be improved 6 db by series resonating the pickup coil and output transducer with a nonpolar capacitor. The addition of this capacitor does not increase the size of the ear canal unit.

The audio amplifier and primary induction loop designs afford several different combinations of amplifier size, operating time, and number of turns for the primary loop. These choices will be submitted to OC-OS for consideration. No matter which combination of primary loop and amplifier is chosen, the total configuration will still be less in overall volume than the original HD-6 loop and amplifier.

A period of thirty days is allotted for consideration of the study results between the preproduction study and initiation of production.

Since the primary induction loop is a special 40 strand, No. 26 wire with a nylon sleeve, its availability from vendors is limited. The earliest delivery date for the amount of wire needed in production has been quoted as November 1966 by the vendor. If this date is predicated upon existing priorities, it may be necessary to establish a Defense Department priority for procurement of the wire. Further information on this will be forthcoming.

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